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APPLICATION NO	FILING DATE	HRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 767,922	01/23/2001	Kazuhiro Hoshino	09792909-4750	1439
26263	890 01 22 2003			
SONNENSCHEIN NATH & ROSENTHAL P.O. BOX 061080 WACKER DRIVE STATION			EXAMINER	
			GLASS, CHRISTOPHER W	
CHICAGO, IL	60606-1080		ART UNII	PAPER NUMBER
			2878	
			DATE MAILED: 01/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicant(s)

Office Action Summary		09/767,922	HOSHINO, KAZUHIRO			
		Examiner	Art Unit			
•		Christopher W. Glass	2878			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
	RTENED STATUTORY PERIOD FOR REPLY	' IS SET TO EXPIRE <u>3</u> MONTH(S) FROM			
- Extension after SIX - If the period of the	AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1 13 (6) MONTHS from the mailing date of this communication mod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1 704(b)	within the statutory minimum of thirty (30) day: rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	s will be considered timely the mailing date of this communication D (35 U S C § 133).			
Status						
1) ⊡ F	Responsive to communication(s) filed on <u>30 S</u>					
,	· 	s action is non-final.				
,	Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> n of Claims					
	laim(s) 1-5 is/are pending in the application.					
,	a) Of the above claim(s) is/are withdraw	vn from consideration.				
	laim(s) is/are allowed.					
	laim(s) <u>1-5</u> is/are rejected.					
	laim(s) is/are objected to.					
, —	laim(s) are subject to restriction and/or	election requirement.				
Application	n Papers	·				
9)[Th	e specification is objected to by the Examiner	• •				
10) <u></u> Th	e drawing(s) filed on is/are: a) _ accep	eted or b)⊡ objected to by the Exa	miner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).			
11)[Th	e proposed drawing correction filed on <u>30 Se</u>	<u>ptember 2002</u> is: a)⊠ approved	b) disapproved by the Examiner			
	If approved, corrected drawings are required in rep	ly to this Office action.				
12)[Th	e oath or declaration is objected to by the Exa	aminer.				
Priority un	der 35 U.S.C. §§ 119 and 120					
13) 🖸 A	cknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f)			
a)[·	All b) Some * c) None of.					
1.	1. Certified copies of the priority documents have been received.					
2	. Certified copies of the priority documents	s have been received in Applicati	on No			
3 * See	Copies of the certified copies of the prior application from the International Bure the attached detailed Office action for a list of the action f	reau (PCT Rule 17.2(a)).				
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Attachment(s	.)					
1) Notice of	of References Cited (PTO-892)	4 Then, e. S. mmar.				
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Application No.

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,172,361 to Holberg et al. (hereafter Holberg), in view of U.S. Patent No. 6,266,197 to Glenn et al. (hereafter Glenn).

Regarding claims 1,2,4,and 5: Holberg shows in Figures 2A and 3A an image pickup device, including a light-transmissible board 101 (comprising aperture 301) having a wiring pattern 302,203,204 formed on one surface thereof. An image pickup element 201 having a photodetecting portion 202 formed on the same surface is also disclosed, the image pickup element 201 being mounted in flip-chip style (via bumps 204 and contacting pads 302) on the one surface of the light-transmissible board 101 so that the photodetecting portion 202 of the image pickup element is opposed to an area where the wiring pattern 203,204,302 is not formed.

of the light-transmissible poard 101 so as to be located above the photodetecting portion 202 of

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the image pickup element **201** (see Column 3, lines 38-41). The light transmissible board **101**, which comprises the aperture **301**, is not specifically taught as containing an optical filter. However, it is well known in the art to provide filters in one or more layers of light-transmissible boards in image pickup device packages. Figure 2 of Glenn et al '197 shows a light transmissible board **122** which can contain an infrared rays cutting filter **1812** (Fig. 18A). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Holberg by providing one or more infrared-filtering layers in the aperture **301** of the light transmissible board **101** disposed above the image pickup element **201**, since it is well known in image pickup device construction to filter certain aspects of incident light through this method, as shown by Glenn '197. Also, the fact that the preamble of claims 4 and 5 states that the device is part of a camera system or camera module is considered the intended use of the device and is not given patentable weight. There is no structure provided in the body of the claims to define the exact device in which the invention would be used.

Regarding claim 3: As shown by Figure 3C of Holberg, the image pickup element 201 is sealed with "a layer 303 of epoxy or similar sealant" (Column 3, lines 38-39). It therefore would have been obvious to use resin, and to apply this resin to a peripheral edge of the image pickup element, in order to hermetically seal all active areas of element from stray contaminants such as unwanted dirt or radiation, and since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher W. Glass whose telephone number is 703-305-1980. The examiner can normally be reached 9:30am-6:00pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached at 703-308-4852. The fax phone number for the organization where this application or proceeding is assigned is 703-308-7722. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

cg January 16, 2003

> STEPHONE ALLEN PRIMARY EXAMINER